

Title (en)

VALVE ASSEMBLY AND METHOD FOR CONTROLLING THE AIR SUSPENSION LEVEL OF A RAIL VEHICLE

Title (de)

VENTILANORDNUNG UND VERFAHREN ZUR REGELUNG DES LUFTFEDERUNGSNIVEAUS EINES SCHIENENFAHRZEUGS

Title (fr)

ENSEMBLE SOUPAPE ET PROCÉDÉ POUR RÉGULER LE NIVEAU D'AMORTISSEMENT PNEUMATIQUE D'UN VÉHICULE SUR RAILS

Publication

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Application

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Abstract (en)

[origin: WO2020125830A1] The invention relates to a valve assembly and a method for controlling the air suspension level of a rail vehicle. A system is provided, which is constructionally simple to build and easy to parameterise, for controlling the air suspension level of a rail vehicle. The object of the invention is achieved by a valve assembly (1) for controlling the air suspension level of a rail vehicle, comprising a proportional directional valve, a sensor means for continuously detecting a distance variable representing the distance of a carriage body (2) from a chassis or bogie of the rail vehicle, and a digital control device, wherein the control device is designed to be programmable for determining a control deviation based on the actual distance detected by the sensor means and a comparison with a predefinable target distance, and for continuously generating control variables as a linear function of the determined control deviation and the carriage body travelling speed. The object is also achieved by a method for controlling the air suspension level of a rail vehicle with a proportional directional valve, a sensor means for continuously detecting a distance variable representing the distance of the carriage body (2) from a chassis or bogie, and a digital control device, wherein a control deviation is determined by the control device based on a comparison of the actual distances detected by the sensor means with a predefinable target distance, and a control variable is generated continuously as a linear function of the determined control deviation and the carriage body travelling speed.

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